

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/03/13419

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F16D65/38 F16D65/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F16D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 381 049 A (CROSSMAN RICHARD L) 26 April 1983 (1983-04-26) column 5, line 39 - column 6, line 20; figures	1-5,7-11
X	US 5 366 280 A (LITTLEJOHN DERON C) 22 November 1994 (1994-11-22) column 4, lines 11,12	1-5,7-11
A	column 18, lines 13-33; figures	12-19
X	WO 01/040672 A (HALDEX BRAKE PROD AB ; SEVERINSSON LARS (SE)) 7 June 2001 (2001-06-07) page 6, line 21 - page 7, line 25; figures	1-5
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

17 February 2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/14708 A (BIEKER DIETER ; PAHLE WOLFGANG (DE); BAUMGARTNER JOHANN (DE); KNORR BR) 21 February 2002 (2002-02-21) cited in the application the whole document	1,10,11

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/03/13419

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4381049	A	26-04-1983	CA 1148483 A1	21-06-1983
			CA 1152008 A2	16-08-1983
			CA 1152009 A2	16-08-1983
			DE 3071166 D1	14-11-1985
			EP 0023468 A2	04-02-1981
			JP 56031532 A	30-03-1981
			JP 61112831 A	30-05-1986
			JP 61112832 A	30-05-1986
			US 4432440 A	21-02-1984
			US 4542809 A	24-09-1985
			US 4567967 A	04-02-1986
US 5366280	A	22-11-1994	NONE	
WO 0140672	A	07-06-2001	SE 518348 C2	24-09-2002
			AU 1911801 A	12-06-2001
			BR 0016074 A	06-08-2002
			CN 1402822 T	12-03-2003
			DE 10085282 T0	27-02-2003
			JP 2003515710 T	07-05-2003
			WO 0140672 A1	07-06-2001
			SE 9904396 A	03-06-2001
			US 2003024776 A1	06-02-2003
WO 0214708	A	21-02-2002	AU 1044102 A	25-02-2002
			AU 1213802 A	25-02-2002
			AU 8209201 A	25-02-2002
			AU 8209301 A	25-02-2002
			AU 8768001 A	25-02-2002
			AU 8768101 A	25-02-2002
			AU 8980201 A	25-02-2002
			AU 9377101 A	25-02-2002
			BR 0107122 A	18-06-2002
			BR 0107123 A	18-06-2002
			CN 1388874 T	01-01-2003
			CN 1388875 T	01-01-2003
			CZ 20021316 A3	16-10-2002
			CZ 20021317 A3	12-11-2003
			DE 10139901 A1	02-10-2002
			DE 10139902 A1	26-09-2002
			DE 10139903 A1	04-04-2002
			DE 10139908 A1	02-10-2002
			DE 10139910 A1	21-03-2002
			DE 10139911 A1	19-09-2002
			DE 10139913 A1	19-09-2002
			WO 0214707 A2	21-02-2002
			WO 0214708 A2	21-02-2002
			WO 0214125 A2	21-02-2002
			WO 0214126 A2	21-02-2002
			WO 0214711 A2	21-02-2002
			WO 0214709 A2	21-02-2002
			WO 0214710 A2	21-02-2002
			WO 0214127 A2	21-02-2002
			EP 1228319 A2	07-08-2002
			EP 1311772 A2	21-05-2003
			EP 1257748 A2	20-11-2002
			EP 1252455 A2	30-10-2002
			EP 1311774 A2	21-05-2003

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/03/13419

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0214708	A	EP 1230491 A2	14-08-2002
		EP 1232346 A2	21-08-2002
		EP 1311773 A2	21-05-2003
		HU 0203166 A2	28-05-2003
		HU 0203919 A2	28-04-2003
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